AK Scientific, Inc.

Safety Data Sheet (United States) Hydrazine hydrate

1.Identification	
Product name:	Hydrazine hydrate
Catalog#:	1248BA
IUPAC name:	hydrazine;hydrate
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Flam. Liq. (category 3) Acute Tox. (category 3) Acute Tox. (category 2) Acute Tox. (category 2) Acute Tox. (category 3) Skin Corr. (category 1) Eye Dam. (category 1) Acute Tox. (category 1) Acute Tox. (category 2) Acute Tox. (category 2) Acute Tox. (category 3) Carc. (category 1B) STOT SE (category 1) STOT RE (category 1) Aquatic Acute (category 1) Aquatic Chronic (category 1)

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H227	Combustible liquid.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or rep
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.

or repeated exposure.

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P301+P310	IF SWALLOWED: Immediately call a poison center or doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	B IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for
	breathing.
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
P307+P311	IF EXPOSED: Call a poison center or doctor.
P308+P313	IF EXPOSED or concerned: Get medical advice/attention.
P310	Immediately call a poison center or doctor.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical, CO2, water spray or alcohol-resistant
	foam for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3.Composition/Information on In	gredients
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Synonyms:	Not available.
CAS#:	10217-52-4
Purity:	79.0 to 82.0 w/w%
EC:	616-584-0

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical

aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information

available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Nitrogen oxides.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL:	Not available.
NIOSH REL:	Not available.
ACGIH TLV:	Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Not Available.
Not Available.
Not Available.
Not Available.
Liquid
H6N2O

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Molecular Weight: Odor: pH: Boiling Point Range: Freezing/Melting Point: Flash Point: Evaporation Rate: Flammability(solid,gas): Explosive limits: Vapor Pressure: Vapor Density: Solubility: Relative Density: Refractive Index: Volatility: Auto-ignition Temperature: Decomposition Temperature:	50.061 Not available. Not available. 119 °C -52 °C 75 °C Not available. Please see section 2. Not available. Not available. Not available. 1.03 1.43 Not available. Not available. Not available. Not available. Not available. Not available.
Partition Coefficient:	Not available.

10. Stability and Reactivity

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: Not available. Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents. Nitrogen oxides.

11. Toxicological Information

RTECS# Acute toxicity: Routes of exposure: Symptoms related to the physical,chemical and toxicological characteristics: Not available. Not available. Inhalation,eye contact,skin contact,ingestion. Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Carcinogenicity

IARC:Not classified.NTP:Not listed.OSHA:Not Available..Acute toxic effects:Inflammation of the eye is characterized by redness, watering, and itching. Skin
inflammation is characterized by itching, scaling, reddening, or, occasionally,
blistering.

12. Ecological Information

Ecotoxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: Not available. Not available. Not available. Not available. Not available.

13. Disposal Considerations

Disposal of waste: Disposal of packaging:	Not listed Not listed		
14. Transportation Information DOT (United States) UN number: Proper shipping name: Transport hazard class: Packing group:	UN2030 Hydrazine aque 8 (6.1);Corrosiv II		
Packing group: IATA UN Number: Proper shipping name: Transport hazard class: Packing group:	II UN2030 Hydrazine, aqueous solution 8 (6.1);Corrosive,Poison II		
15. Regulatory Information TSCA (United States) Not Available.			
California Proposition 65: NFPA Rating:	Not Available Health: Flammability: Instability:	Not available. Not available. Not available.	
16. Additional Information			
Version: 2 Revision Data: 02/10/2024			

Revision Date: 03/19/2024 Printed Date: 03/19/2024

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